

ABSTRACT OF THE DISCLOSURE

Disclosed is a color optical link using a transparently jacketed plastic optical fiber which optically transmits data and uses light, scattered and emitted to the outside, for the purpose of illumination, and a method for achieving the color optical link. The color optical link includes a first driver for receiving digital or analog signals and a coloring signal in parallel and converting the received signals into optical signals through a plurality of light sources; the plurality of light sources for emitting light having different wavelengths in order to output the optical signals; a first POF coupler for inputting a plurality of the optical signals received from a the plurality of the light sources into the transparently jacketed plastic optical fiber; the transparently jacketed plastic optical fiber having one end connected to the first POF coupler and the other end connected to a second POF coupler; the second POF coupler being provided for separating an optical signal transmitted from the transparently jacketed plastic optical fiber into a plurality of optical signals and respectively inputting the optical signals into a plurality of optical detectors; the plurality of the optical detectors respectively having filters for separating the received optical signal into plural signals according to wavelengths; and a second driver for receiving the optical signals from the optical detectors and converting the received optical signals into electrical signals.